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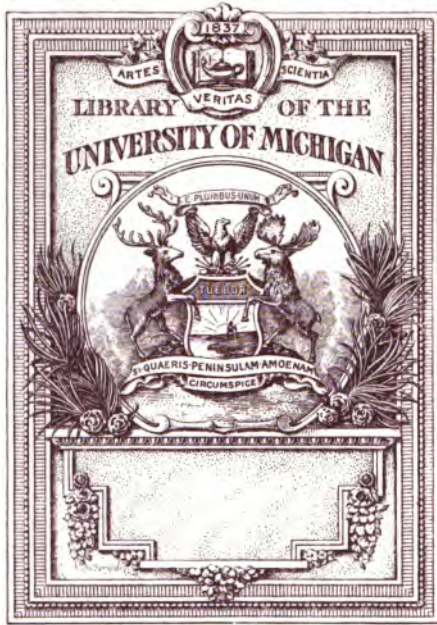
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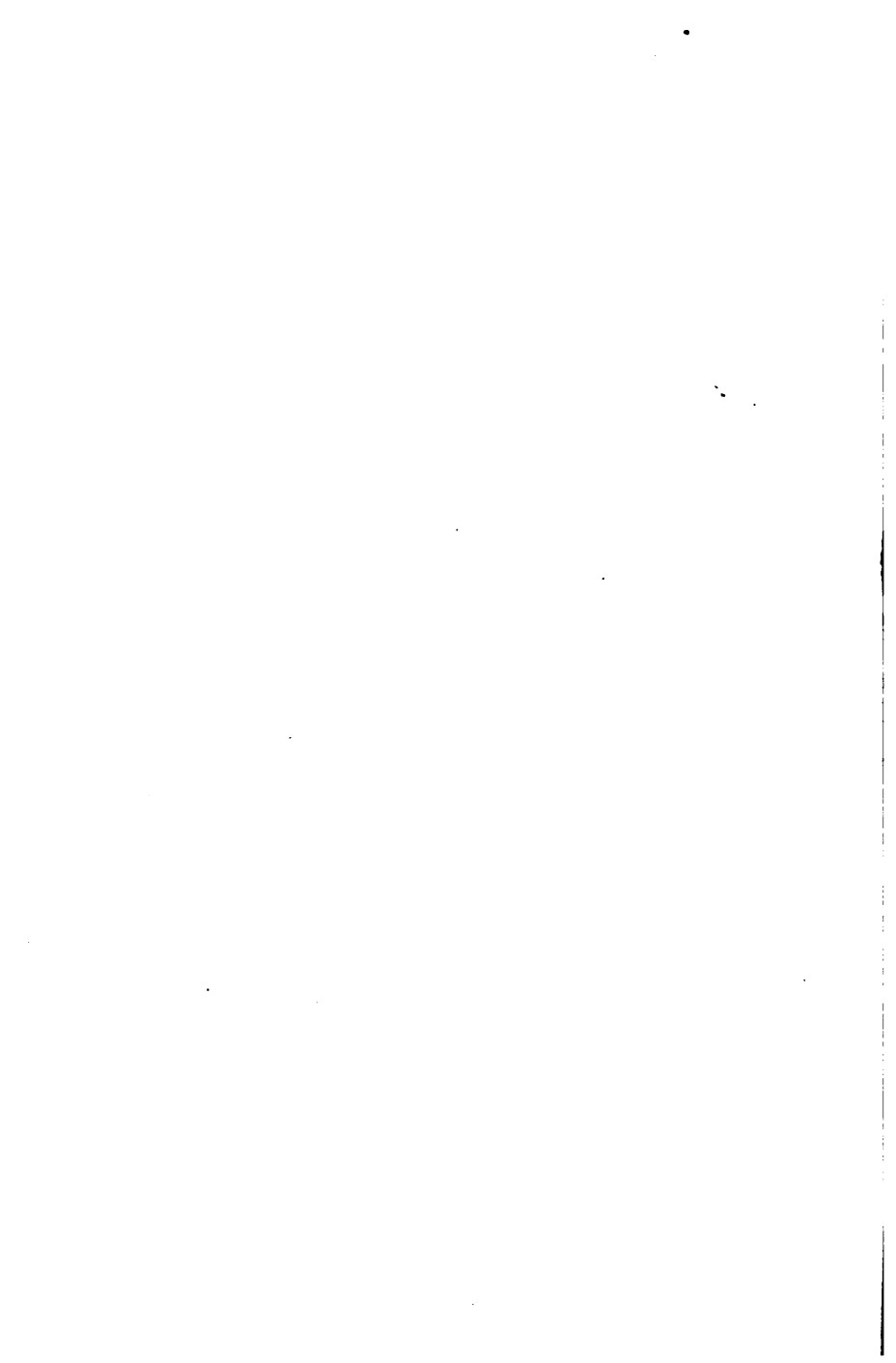




THE GIFT OF

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THE
J. C. Russell *Universal*
NATURALISTS' DIRECTORY

1886.

CONTAINING THE NAMES, ADDRESSES, SPECIAL DEPARTMENTS
OF STUDY, ETC., OF THE NATURALISTS, CHEMISTS,
PHYSICISTS, ASTRONOMERS, ETC., ETC.,
OF THE UNITED STATES AND
CANADA.

ARRANGED ALPHABETICALLY,
ALSO GEOGRAPHICALLY.

EDITED BY
SAMUEL E. CASSINO.

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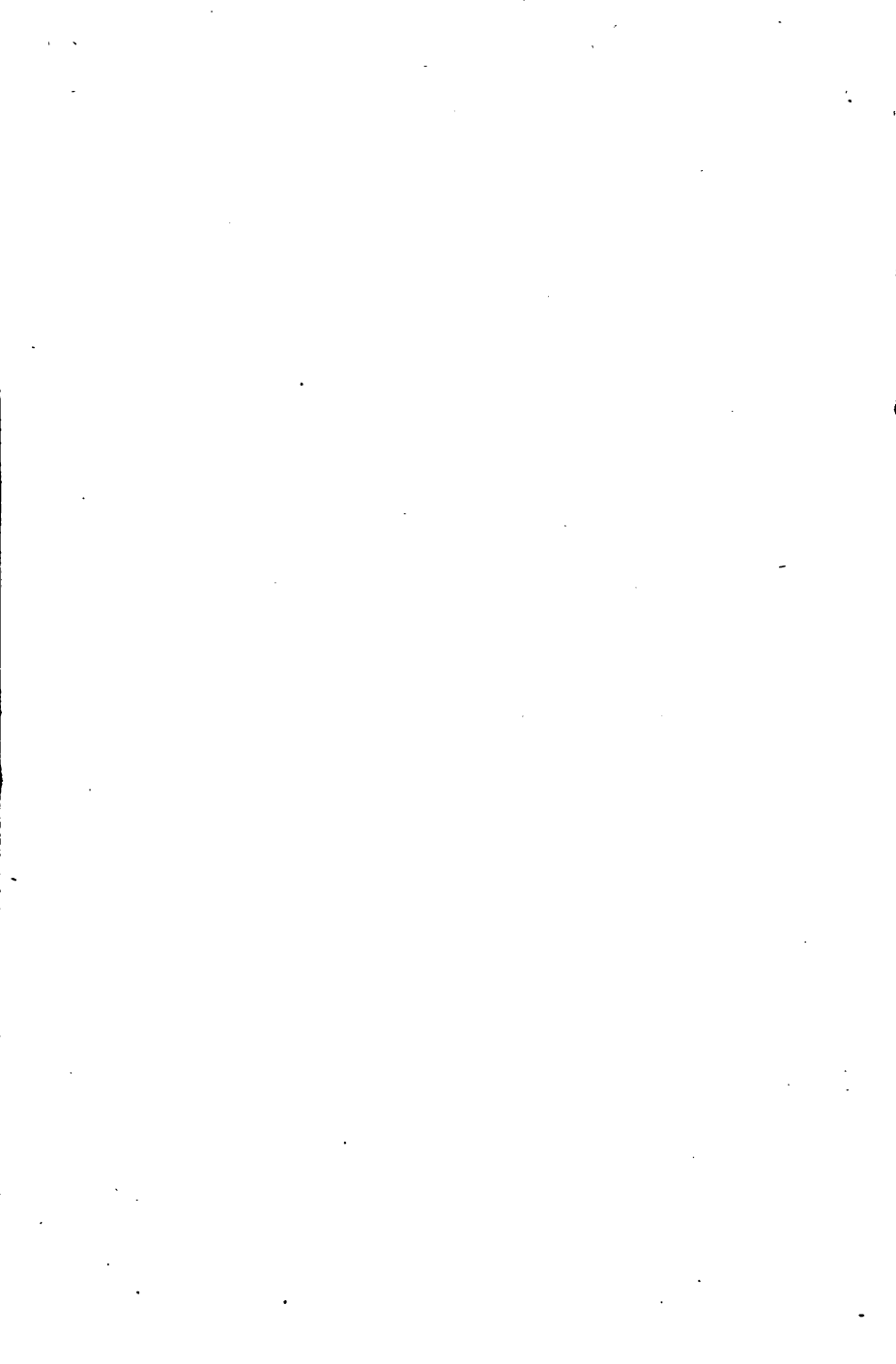
NOTICE.

In the first part, the alphabetical arrangement of the Directory, all addresses which have been verified by direct replies, since the last edition, from the persons themselves, are followed by an asterisk (*). Names which are followed by an interrogation mark (?) have not replied to blanks for at least two years, and will be omitted from the next edition if not verified in the meantime. All names not designated as above, reported for the last edition, or for good reasons are supposed to be correct, but if not previously verified, will be followed by a (?) in the next edition.

In the second part (page 179), will be found the geographical arrangement, the addresses being arranged alphabetically, by towns and cities under each state. The departments of study are abbreviated in most cases to a single letter, a key to which will be found at the head of page 179.

The Directory will not be issued annually hereafter, and the next issue will be in 1888. Special exertion will be made to make this edition the largest yet issued, and it will probably be an *International* directory. Some method will probably be devised for designating the professional and amateur scientists.

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ABBREVIATIONS.

Acad., Academy.
Agric., Agriculture.
Ala., Alabama.
Am., American.
Anat., Anatomy.
Analyt., Analytical.
Anth., Anthropology.
Antiq., Antiquities.
Arach., Arachnida.
Arch., Archæology.
Ariz., Arizona.
Ark., Arkansas.
Ast., Astronomy.
Asst., Assistant.
Biol., Biology.
Bot., Botany.
Bryol., Bryology.
C., Collection.
Calif., California.
Carab., Carabidæ.
Carb., Carboniferous.
Ceram., Cerambycidæ.
Chem., Chemistry.
Cicind., Cicindelidæ.
Cin., Cincinnati.
Colo., Colorado.
Coleopt., Coleoptera.
Coll., College.
Comp., Comparative.
Con., Conchology.
Ct., Connecticut.
Crypt., Cryptogamic.
Crystal., Crystallography.
Cur., Curator.
Cus., Custodian.
Dak., Dakotah.
D. C., District of Columbia.
Del., Delaware.
Dept., Department.
Devon., Devonian.

Dipt., Diptera.
Dir., Director.
Dist., Distribution.
Econ., Economic.
Elect., Electricity.
Emb., Embryology.
Ent., Entomology.
Esp., Especially.
Eth., Ethnology.
Ethnog., Ethnography.
Ex., Exchange.
Fla., Florida.
Ga., Georgia.
Gen., General.
Geog., Geographical.
Geol., Geology.
Held., Helderberg.
Hemipt., Hemiptera.
Herpetol., Herpetology.
Histol., Histology.
Hort., Horticulture.
Hymenop., Hymenoptera.
Ia., Iowa.
Ichth., Ichthyology.
Ill., Illinois.
Ind., Indiana.
Invert., Invertebrates.
Inorg., Inorganic.
Inst., Institute.
Kan., Kansas.
Ky., Kentucky.
L., Lower.
La., Louisiana.
L. & F. W., Land and Fresh Water.
Lepid., Lepidoptera.
Lithol., Lithology.
M., Marine.
Mam., Mammalogy.
Mass., Massachusetts.
Math., Mathematics.

Md., Maryland.
 Me., Maine.
 Med., Medical.
 Meteo., Meteorology.
 Met., Metallurgy.
 Mic., Microscopy.
 Mich., Michigan.
 Min., Mineralogy.
 Minn., Minnesota.
 Miss., Mississippi.
 Mo., Missouri.
 Moll., Mollusks.
 Mont., Montana.
 Mus., Museum.
 Nat. Hist., Natural History.
 N. C., North Carolina.
 Neb., Nebraska.
 Neuropt., Neuroptera.
 Nev., Nevada.
 N. H., New Hampshire.
 Niag., Niagara.
 N. J., New Jersey.
 N. M., New Mexico.
 N. Y., New York.
 O., Ohio.
 Obs., Observatory.
 Ool., Oology.
 Ophthal., Ophthalmology.
 Ore., Oregon.
 Org., Organic.
 Orn., Ornithology.
 Orthopt., Orthoptera.
 Osteol., Osteology.
 Palæo., Palæontology.
 Pathol., Pathological.
 Pa., Pennsylvania.

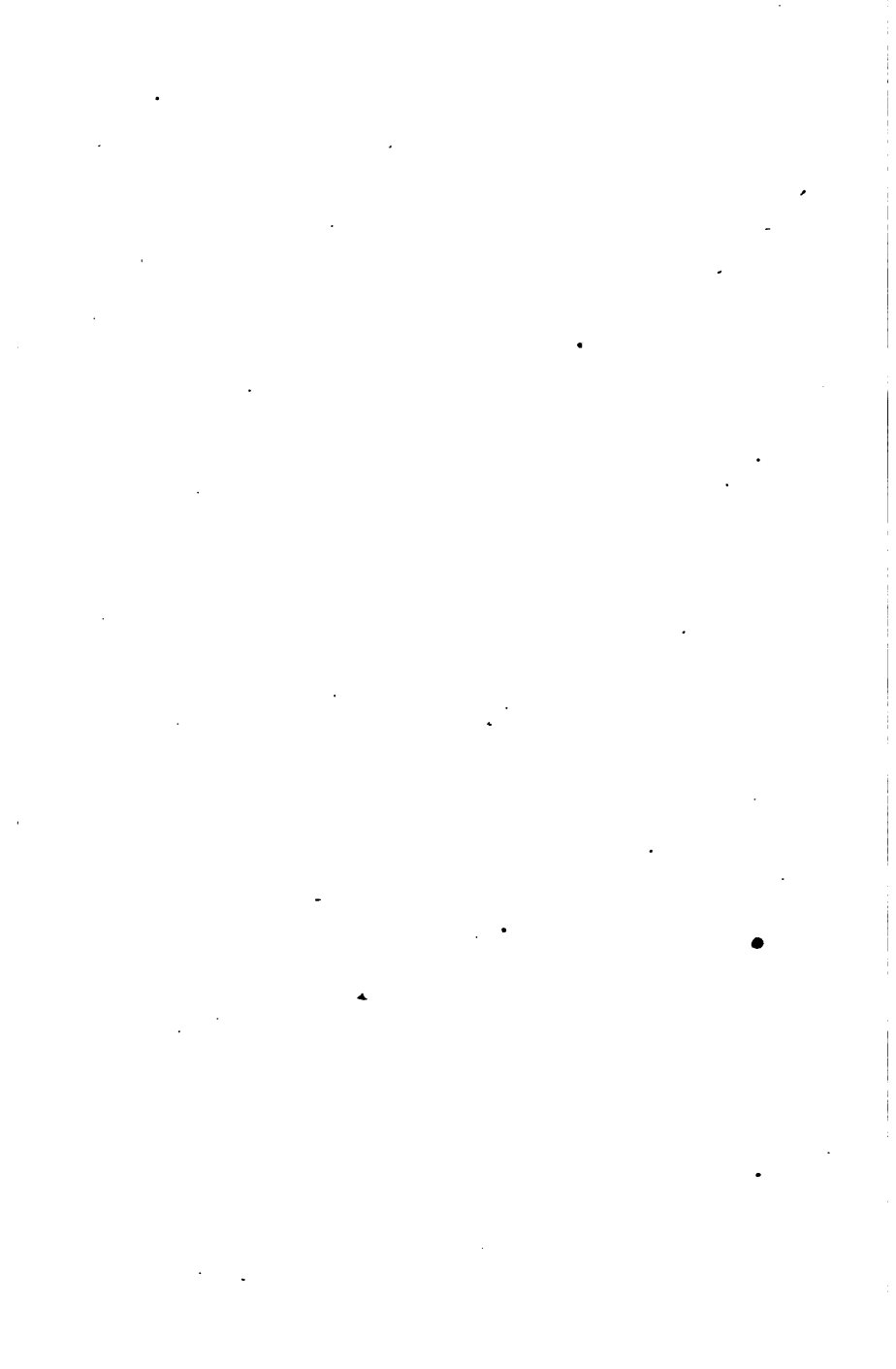
Phæn., Phænogamic.
 Philol., Philology.
 Phil., Philosophy.
 Photog., Photography.
 Phys., Physics.
 Psych., Psychol.
 Pres., President.
 Prof., Professor.
 R. I., Rhode Island.
 S. C., South Carolina.
 Sec., Secretary.
 Sci., Science.
 Sil., Silurian.
 So., Southern.
 Soc., Society.
 Sp., Species.
 Spec., Specimens or Specialty.
 Strat., Stratigraphical.
 Surv., Survey.
 Syst., Systematic.
 Tax., Taxidermy.
 Tech., Technical, Technology.
 Tenn., Tennessee.
 Tex., Texas.
 U., Upper.
 Univ., University.
 Va., Virginia.
 Vasc., Vascular.
 Veg., Vegetable.
 Vert., Vertebrates.
 Vt., Vermont.
 Wis., Wisconsin.
 Wash. Ter., Washingt'n Territory.
 W. T., Wyoming Territory.
 W. Va., West Virginia.
 Zool., Zoology.

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Niag. Period and its equivalent.



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UNITED STATES AND CANADA.

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- 497 Brackett, S. H., A.M., Prof. Nat. Sci., Academy, St. Johnsbury, Vt. *Phys.*, *Tax.* C.
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- 1535 Garman, H., Champaign, Ill. *Biol., Ent., Emb.*

- 1536 Garman, Samuel, care Mus. Comp. Zool., Cambridge, Mass. *Herpetol., Ichth.**
- 1537 Garnett, Algernon S., M.D., A.M., Hot Springs, Ark. *Chem., Gen. Biol., Emb., Anat.?*
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- 1539 Garrett, Henry, White Horse, Pa. *Min., Mic. C. Ex.?*
- 1540 Garrett, Philip C., Logan P. O., Phila., Pa. *Phys., Geol., Orn. C. Ex. in Orn.*
- 1541 Garrett, Thomas H., 919 Chant St., Philadelphia, Pa. *Chem.*
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- 1572 Gerner, W., Trexlertown, Lehigh Co., Pa. *Min.*, *Orn.* C.?
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- 1584 Gibbs, P. H., Oshawa, Ont., Can. *Mam.*, *Orn.*, *Min.*, *Geol.*?
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- 1612 Gilman, Henry A., M.D., Supt. Iowa Hospital for Insane, Mt. Pleasant, Iowa. *Bot., Geol., Chem., Physics, Anat.**
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- 1614 Gilpin, Edwin, A.M., F.G.S., Government Inspector of Mines, Halifax, N. S., Can. *Mining Engineer, Local Geol.*
- 1615 Gilson, F. H., 226 Franklin St., Boston, Mass. *Bot. C.**
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- 1618 Gissler, Carl F., Ph.D., 15 Adams St., Brooklyn, E. D., N. Y. *Zool., Crustacea.**
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 1643 Goodell, J. H., M.D., Marseilles, La Salle Co., Ill. *Osteol. C.*
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 1646 Goodfellow, G. E., M.D., Tombstone, Ariz. *Bot., Emb.**
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- 1743 Grunow, J., Microscopes, Microscope Objectives, and other Optical Instruments, 70 W. 39th St., New York, N. Y. *Optics in general.*
- 1744 Guignard, J. A., B.A., 36 Daly St., Ottawa, Can. *Bot., Hymenoptera.**
- 1745 Guild, A. S., Lowell, Mass. *Bot. C. Ex.*
- 1746 Guiley, Prof. F. A., M.S., Agricultural College P. O., Miss. *Agric.*
- 1747 Gunckel, L. W., 121 W. 2nd St., Dayton, Ohio. *Palæo., Geol., Anth., Arch., Ethnol. C. Ex.* rare fossils, mins., etc., for rare Arch. spec. of all kinds. Correspondence solicited.*
- 1748 Gundlach, Ernst, care Gundlach Optical Co., Rochester, N. Y. *Elect., Mic., Ast.**
- 1749 Gunn, Charles W., Grand Rapids, Mich. *Orn., Mam. C.*
- 1750 Gunn, R. A., M.D., 45 E. 22 St., New York City. *Anat.**
- 1751* Gurley, Mrs. Anna S., Danville, Ill. *Con., Crust., Invert. Zool. C. Ex.* fossils for above.*
- 1752 Gurley, William F. E., Danville, Ill. *Invert. Palæo. C.* Fossils to ex.*
- 1753 Guthrie, Ezra L., Adams, Decatur Co., Ind. *Arch., Orn., Tax. C. Ex.*
- 1754 Guttenberg, Gustavus, Erie, Pa. *Bot., Min., Geol. C. Ex.**
- 1755 Haanel, Prof. E., Ph.D., Victoria Univ., Cobourg, Ontario, Can. *Chem., Phys., Min.?*
- 1756 Haberer, Joseph V., M.D., 66 Miller St., Utica, N. Y. *Bot.: Cyperaceæ (spec. carex), Comp. Anat., Osteol. C.* Rare plants for ex. Solicits correspondence. Desires Caricæ from all parts of the world.*
- 1757 Habirshaw, Fred., F.R.M.S., 113 Maiden Lane, New York, N. Y. *Diatomaceæ. C. Ex.**
- 1758 Habirshaw, John, M.D., F.R.M.S., 260 W. 57th St., New York, N. Y. *Mic., Vert. C.**

- 1759 Hack, Arthur H., 30 Harrison St., Taunton, Mass. *Orn.*, *Ool.*, *Taz.* C. Ex.
- 1760 Hacker, Wm., 233 So. 4th St., Philadelphia, Pa. *Orn.*, *Bot.* C. Ex.
- 1761 Hackman, H. S., Peru, La Salle Co., Ill. *Algæ*, *Fungi*, *Mosses*, *Hort.*, *Palæo.*, *Geol.*, *Min.*, *Arch.*, *Ent.*, *Moll.* C. Ex.*
- 1762 Hafstein, L. M., Belvidere, N. J. *Min.*, *Taz.*
- 1763 Hagan, Miss Jennie B., So. Royalton, Vt. *Shells*, *Min.* C.?
- 1764 Hagemann, John, 106 Bank St., Cincinnati, Ohio. *Geol.*, *Min.*, *Chem.*, *Metall.*, *Phys.* C.
- 1765 Hagen, H. A., M.D., Ph.D., Prof. Harvard Univ., Asst., Mus. Comp. Zool., 7 Putnam Ave., Cambridge, Mass. *Ent.* Ex. *Biological specimens. Neuroptera. Pseudo-neuroptera.**
- 1766 Hager, Albert D., 463 S. Leavitt St., Chicago, Ill. *Geol.* C.*
- 1767 Hague, Arnold, U. S. Geol. Surv., Washington, D. C. *Geol.*, *Lithol.**
- 1768 Hague, James D., Mining Engineer, 18 Wall St., New York, N. Y. *Geol.*, *Mining Engineering.*
- 1769 Hahn, H. C., Ph.D., Lansing, Mich. *Crystall.*, *Chem.*, *Gen. Biol.*, *Vert. Emb.*, *Philol.*, *Orn.*, *Histol.* C. Ex.*
- 1770 Haight, E. M., Riverside, Calif. Dealer in *Gen. Nat. Hist. spec. and Curiosities.* C. Ex.*
- 1771 Hailles, Wm., M.D., 197 Hamilton St., Albany, N. Y. *Embryology*, *Normal and Pathological Histol.* C. Ex.
- 1772 Haines, Benjamin, Elizabeth, N. J. *Min.*, *Arch.* C. Ex.*
- 1773 Haines, H. Cope, Haines St., Germantown, Pa. *Bot.*
- 1774 Haines, H. F., 1259 Waverly Place, Elizabeth, N. J. *Ool.* C. Ex.
- 1775 Haines, Reuben, 123 W. Cheltenham Ave., Germantown, and 738 Sansom St., Philadelphia, Pa. *Analyt. Chem.**
- 1776 Haines, Wm. J., A.B., Cheltenham, Montgomery Co., Pa. *Elect.*, *Orn.*, *Ool.* C. Ex.*
- 1777 Hake, E. G., M.D., New Cumberland, Cumberland Co., Pa. *Bot. (Crypt.)*, *Zool.*, *Geol.*, *Mic.* C. Ex.*
- 1778 Halberstadt, A. G., 270 Seventh St., New York, N. Y. *Am. and Foreign Stamps.**
- 1779 Halberstadt, Baird, Penn. Geol. Survey, Pottsville, Pa. *Geol.*, *Ethnog.*, *Neuropt.* C. Ex.
- 1780 Halbrook, F. M., Box 107, El Paso, Texas. *Min.*, *Metall.*, *Photog.* C. Ex.*
- 1781 Hale, Albert C., Pres. Colorado State School of Mines, Golden, Colo. *Crystall.*, *Lithol.*, *Chem.*, *Met.* C. Ex.?
- 1782 Hale, Dr. Edwin M., Emeritus Prof. Materia Med. and Therap., Chicago Hom. Med. Coll., 65 22nd St., Chicago, Ill. *Med. Bot.*, *Materia Medica.**
- 1783 Hale, Horatio, Clinton, Ont., Can. *Anth.*, *Arch.*, *Eth.*, *Ethnog.*, *Philol.**
- 1784 Hale, William H., Ph.D., 50 Clinton Ave., Albany, N. Y. *Gen. Biol.*, *Anth.*, *Comp. Philol.**
- 1785 Hall, A., East Rockport, Ohio. *Orn.* Birds of Calif. and New Mex. especially desired. Will pay cash for rare species. C. Ex.*

- 1786 Hall, Alex. P., M.D., Mobile, Ala. *Bot., Mic., Ent., Normal and Path. Histol., Physiol., Spec. Nervous System.**
- 1787 Hall, Asa F., Hudson, Mass. *Min., Geol. C. Ex.**
- 1788 Hall, Prof. Asaph, U. S. Naval Observ., Washington, D. C.*
- 1789 Hall, Rev. C. H., D.D., 157 Montague St., Brooklyn, N. Y. *Bot. C. Ex.**
- 1790 Hall, C. W., Prof. Univ. Minn., 904 Univ. Ave., Minneapolis, Minn. *Min., Geol., Lithol. C. Ex.**
- 1791 Hall, D. K., Rutland, Vt. *Geol., Min. C. Ex.**
- 1792 Hall, Edwin B., Wellsville, Alleghany Co., N. Y. *Ferns.**
- 1793 Hall, Edwin H., 5 Avon St., Cambridge, Mass. *Phys.**
- 1794 Hall, Henry G., Savoy, Champaign Co., Ill. *Arch., Orn., Ool., Tax., Ent. C. Ex.* birds and reptiles' eggs, mounted birds and mammals.
- 1795 Hall, Isaac H., 725 Chestnut St., Philadelphia, Pa. *Bot: Ferns, Orchids. C.?*
- 1796 Hall, James, State Geologist and Director of State Mus. Nat. Hist., Albany, N. Y. *Geol., Palæo. C. Ex.* Will send Mus. publications in return for books or collections for State museum.*
- 1797 Hall, John W., jr., Covington, Ky. *Palæo., Min. C. Ex.?*
- 1798 Hall, L. B., Ph.D., Haverford Coll., Montgomery Co., Pa. *Chem., Phys.**
- 1799 Hall, Dr. L. Brewer, 17 So. 16th St., Philadelphia, Pa. *Crypt. Bot., Mic.*
- 1800 Hall, Newton, 2nd, A.B., L. Box 8, Syracuse, N. Y. *Diatoms, Phys., Ferns, Geol., Mic. C. Ex.*
- 1801 Hall, Orvis W., M.D., Atlanta, Idaho. *Phæn. Bot., Ferns, Mosses, Chem., Elect., Osteol., Myol., Histol.**
- 1802 Hall, T. P., B.A., F.C.S., Prof. Nat. Sci., Woodstock Coll., Woodstock, Ont., Canada.*
- 1803 Hall, Wm. C. J., Jamestown, Chautauqua Co., N. Y. Director of Chaut. Univ. *Mic. C. Ex.*
- 1804 Hall, Capt. W. P., 2134 W. 3d St., Davenport, Ia. *Arch.?*
- 1805 Hallock, A. P., Ph.D., N. Y. Gas Light Co., 21st St. and Ave. A, New York, N. Y.*
- 1806 Hallock, Prof. E. J. Ph.D., Peekskill, N. Y. *Chem.*
- 1807 Hallowell, Susan M., Prof. Bot., Wellesley Coll., Wellesley, Mass.*
- 1808 Halsted, Byron D., office of "American Agriculturist," 751 Broadway, New York, N. Y. *Crypt. Bot.*
- 1809 Halsted, Geo. B., Prof. Math., Univ. of Tex., 2004 Matilde St., Austin, Tex. *Crystall., Phys., Ast.*
- 1810 Halsted, William S., M.D., Columbia Coll., New York, N. Y. *Anat.?*
- 1811 Ham, G. E., 7 Silver St., Worcester, Mass. *Coleopt.**
- 1812 Hambach, G., M.D., 1819 Lami St., St. Louis, Mo. *Palæo., Bot. C. Ex.* fossils and minerals.*
- 1813 Hamblin, Floyd, Boonville, Oneida Co., N. Y. *Min., Geol., Arch. C.**

- 1814 Hambly, D. W., Spanish Ranch, Plumas Co., Calif. *Geol., Min., Met., Gen. Biol.* C. Ex.?
- 1815 Hamel, Thomas E., M.A., F.R.S.C., Prof. Faculty of Arts, Laval Univ., Quebec, Can. *Nat. Phil.**
- 1816 Hamill, Alexander, M.D., Baldwinsville, N. Y. *Arch.* C. Ex.
- 1817 Hamilton, C. W., Brimfield, Ill. *Orn., Geol., Ferns, Palæo., Min., Herpet., Moll.* C. Ex.*
- 1818 Hamilton, Edwin H., Petersburg, Ill. *Ool., Arch., Nat. Hist.**
- 1819 Hamilton, Hugh, M.Sc., M.D., 212 So. 2d St., Harrisburgh, Pa. *Chem., Geol.* C.*
- 1820 Hamilton, John, M.D., 18 Ohio St., Allegheny, Pa. *Coleopt.* C. Ex.*
- 1821 Hamilton, John M., Coudersport, Potter Co., Pa. *Ferns, Hort., Gen. Zool., Ent., Moll.* C. Ex.*
- 1822 Hamilton, W. N., Greencastle, Ind. *Math.*
- 1823 Hamlin, Augustus C., M.D., Bangor, Me. *Palæo., Geol., Min., Crystall., Chem., Metal., Arch., Eth.* C.
- 1824 Hamlin, D. A., Allston, Mass. *Bot., Mic.**
- 1825 Hamlin, F. M., M.D., 9 William St., Auburn, N. Y. *Mic., Con.* C. Ex. Bermuda and W. I. sea-shells in ex. for L. and F. W. and other marine shells. Also mic. objects generally.*
- 1826 Hamlin, Thomas, Exeter, Ont., Canada. C. Ex.*
- 1827 Hammond, H. A., jr., Nicollett, Wis. *Orn.*
- 1828 Hampton, C. J., Junius, Seneca Co., N. Y. *Orn., Min., Moll.* C. Ex.*
- 1829 Hanaman, C. E., F.R.M.S., 103 First St., Troy, N. Y. *Biol., Histol.* C.*
- 1830 Hancock, E. M., Waukon, Ia. *Orn.**
- 1831 Hancock, Joseph L., 2555 Michigan Ave., Chicago, Ill. *Zool., Biol.**
- 1832 Hanke, Henry C., Minneapolis, Minn. *Orn., Ool.* C. Ex.*
- 1833 Hankenson, E. L., Newark, Wayne Co., N. Y. *Bot.: Salices, Carices.* C. Ex. local for other plants.*
- 1834 Hanks, Henry G., State Mineralogist and Dir. State Mus., 1124 Greenwich St., San Francisco, Calif. Ex. for State Mus.*
- 1835 Hanna, George B., Asst. Assayer U. S. Assay Office, Charlotte, N. C. *Min. Engineering, Met. and Min., Chem.* C.
- 1836 Hanna, H. W., Warsaw, Ind. *Palæo., Geol., Min., Con., Arch.* C. Ex.*
- 1837 Hannum, Frank A., Easthampton, Mass. *Orn., Ool.* C.?
- 1838 Hanson, James F., Fremont, Neb. *Bot., Geol.?*
- 1839 Harbison, W. F., Mendon, Mercer Co., Ohio. *Arch., Geol., Moll., Palæo.* C. Ex.*
- 1840 Harbron, George, P. O. Box 181, Hamilton, Ohio. *Tax.*
- 1841 Hard, M. E., M.A., Supt. Pub. Instruction, Gallipolis, O. *Geol., Min., Crystall., Lithol.* C. Ex.*
- 1842 Hardaway, R. A., Ala. Agric. and Mech. Coll., Auburn, Ala. *Engineering.?*

- 1843 Harden, Edw. B., M. E., 2nd Geol. Surv. Pa., 537 N. 33rd St., Phila., Pa. *Struct. Geol., Geol. models. Inorg. Chem., Photog.**
- 1844 Harden, John H., M.E., Phoenixville, Pa. *Expert in Min. Eng. C. Ex.**
- 1845 Harden, Oliver B., Asst. State Survey, 907 Walnut St., Philadelphia, Pa. *Top. Eng. and Stenographer.**
- 1846 Hardin, Robert A., M.D., Cor. 5th Ave. and Russell St., Nashville, Tenn. *Mic., Zool., Gen. Biol. C. Ex.**
- 1847 Hardy, Arthur S., Ph.D., Dartmouth Coll., Hanover, N. H. *Math.?*
- 1848 Hardy, E. R., 420 Congress St., Portland, Me. *Mam., Orn., Reptiles. C.?*
- 1849 Hardy, Manly, Brewer, Me. *Orn. C. Ex.*
- 1850 Hare, Prof. R. B., Ph.D., Agric. Coll., Guelph, Ont., Can. *Chem., Geol.**
- 1851 Hare, Sidney J., C.E., 1634 Wyandotte St., Kansas City, Mo. *Palæo., Ent., Min., Geol., Arch. Collector, Curator K. C. Academy of Science.**
- 1852 Haren, Wm. A., 1400 Hickory St., St. Louis, Mo. *Mic., Ast., Diatoms, Palæo., Chem., Phys., Photog., Anat., Ent. C. Ex.**
- 1853 Harger, Oscar, 14 University Place, New Haven, Ct. *Isopod Crustacea, Palæo.**
- 1854 Hargrave, C., Danville, Ind. *Articulata, Moll., Geol. C. Ex.**
- 1855 Hargreaves, H. B., Box 19, Garnerville, Rockland Co., N. Y. *Mic.: Sections of wood. C. Ex.?*
- 1856 Harkness, Chas. W., Elmwood, Peoria Co., Ill. *Geol., Lithol., Chem. C. Ex.**
- 1857 Harkness, H. W., M.D., Calif. Academy of Science, San Francisco, Calif. *Micros., Fungi. C.*
- 1858 Harper, Esmonde, 2035 Wallace St., Philadelphia, Pa. *Orn., Ool. C. Ex.?*
- 1859 Harper, George W., Principal Woodward High School, Cincinnati, Ohio. *Geol., Con., Palæo. C. L. Sil. fossils and F. W. and L. Shells of Ohio, Ky. and Tenn. for ex.**
- 1860 Harr, W. H., Judge of Probate Court, Hamilton, Butler Co., O. *Arch., Geol., Palæo. C. Ex.*
- 1861 Harriman, M. C., Warner, N. H. *Min., Orn., Ent., Photography. C. Ex.**
- 1862 Harring, Wm., 523 Clay St., San Francisco, Calif. *Lepid. C. Ex. and purchase.**
- 1863 Harrington, B. J., B.A., Ph.D., Prof. Chem. and Min., McGill College, Montreal, Can. *Min. C. Ex.*
- 1864 Harrington, Chas., M.D., Asst. Chem., Harvard Med. Coll., Boston, Mass. *Med. Chem. and Tox.*
- 1865 Harrington, M., Homestead, Iowa Co., Ia. *Ool. C. Ex.*
- 1866 Harrington, Prof. Mark W., Dir. of Obs., Ann Arbor, Mich. *Ast., Met.*
- 1867 Harrington, W. Hague, P. O. Dept., Ottawa, Can. *Ent.: Coleoptera, Hymenoptera. C.**
- 1868 Harris, De Witt S., Cuba, Fulton Co., Ill. *Mic., Arch., Ent. C. Ex.**

- 1869 Harris, Elijah P., Ph.D., Prof. Chem., Amherst Coll., Amherst, Mass.?
- 1870 Harris, I. H., Waynesville, Ohio. *Geol., Palæo., Arch. C. Ex.*
- 1871 Harris, Sarah C., M.D., Galena, Ill. *Bot., Min., Palæo. C.?*
- 1872 Harris, Thos. C., Cur. N. C. Geol. Museum, Dept. Agric., Raleigh, N. C. *Min., Phys., Elect., Photog.**
- 1873 Harrison, Edwin, B.S., St. Louis, Mo. *Geol.**
- 1874 Harrison, Frank S., Princeton, Ill. *Bot., Geol., Arch. C.?*
- 1875 Harrison, George B., 520 East Mulberry St., Bloomington, Ill. *Geol. C. Ex.**
- 1876 Harrison, G. E., M.D., Ottawa, Ohio. *Elect., Mic. C. Ex.*
- 1877 Harrison, J. B., Franklin Falls, N. H. *Bot., Geol. C. Ex.**
- 1878 Harrison, Joseph La Ray, North Adams, Mass. *C.?*
- 1879 Harrison, Wm. G., M.D., 36 Mt. Vernon Place, Baltimore, Md. *Mic., Biol.**
- 1880 Harrod, P., M.D., Avon, Fulton Co., Ill. *Ool. C. Ex.**
- 1881 Hart, Chas. A., Champaign, Ill. *Ent., Bot., Can. C.**
- 1882 Hart, Chas. P., Wyoming, Ohio. *Biol., Alienist and Neurologist.**
- 1883 Hart, Edward, Ph.D., Prof. Chem., Easton, Pa. *Chem.?*
- 1884 Hartman, John H., Lebanon, Warren Co., Ohio. *L. and F. W. Shells, Cin. Fossils, for ex. in Palæo., Ferns, Min. C.*
- 1885 Hartman, Walter, Ernestown Station, Ont., Canada. *Orn., Tax. C. Ex.**
- 1886 Hartman, W. D., M. D., Westchester, Pa. *Con. C.?*
- 1887 Hartshorne, Dr. Henry, A.M., M.D., Germantown, Phila., Pa. *Gen. Biol.**
- 1888 Hartt, Mrs. Charles Fred., 118 Park St., Buffalo, N. Y. *Geol., Min., Pottery, Antiquities. C.?*
- 1889 Hartwell, Edw. M., Ph.D., M.D., Associate in Phys. Training and Dir. Gymnasium, Johns Hopkins Univ., Baltimore, Md. *Biol.*
- 1890 Hartwell, Samuel, Lincoln, Mass. *Hort.**
- 1891 Hartzell, L. B., Harper, Harper Co., Kan. *Orn., Ool. C. Ex.**
- 1892 Hartzler, Prof. J. C., Newark, Ohio. *Arch., Geol., Palæo.?*
- 1893 Harvey, F. L., B.S., Prof. Biology and Geology, Ark. Indust. Univ., Fayetteville, Ark. *Bot., Zool., Geol., Min. C. Ex.*
- 1894 Harvey, Leon F., M.D., Buffalo, N.Y. *Lepid. C.**
- 1895 Harvey, William, Bradford, Stark Co., Ill. *Bot. C.*
- 1896 Haskell, Charles H., Holland Patent, Oneida Co., N. Y. *Palæo., Min. C. Ex. fossils from Utica slate for fossils or fine minerals.**
- 1897 Haskins, Rev. David Greene, S.T.D., 839 Main St., Cambridge, Mass. *Hydrodynamics.*
- 1898 Haskins, J. P., Proprietor Saratoga Co. Mus. of Nat. Hist., L. B. 432, Saratoga Springs, N. Y. *Geol., Min., Arch., Palæo. C. Ex.*
- 1899 Haslam, Rev. Geo. E., M.A., Trinity College, Toronto, Can. *Bot., Geol., Zool. C. Ex.**

- 1900 Hasse, H. E., M.D., Little Rock, Ark. *Bot. C. Ex.**
- 1901 Hassler, Ferdinand A., M.D., Ph.D., Santa Ana, Los Angeles Co., Calif. *Phæn. Bot., Geog. Dist., Mollusca. C.**
- 1902 Hastings, Wm. N., Rochester, Strafford Co., N. H. *Desmids, Diatoms, Mic., Protozoa, Infusoria. C.**
- 1903 Hatch, C. C., Community, N. Y. *Orn. C. Ex.*
- 1904 Hatch, Delos, Oak Centre, Wis. *Orn. C. Ex. birds' eggs and skins for same, and mins., shells, etc.*
- 1905 Hatch, P. L., Minneapolis, Minn. *State Ornithologist and Microscopist.*
- 1906 Hatch, S. R., Milford, Mass. *Diatoms, Min., Mic., Photog., Infusoria, Electricity. C. Ex.?*
- 1907 Hatch, W. H., Rock Island, Ill. *Phæn. Bot. C. Ex.**
- 1908 Hathaway, T. F., So. Parish, Oxford Co., Me. *Bot., Woods a specialty. C. Ex.?*
- 1909 Haupt, H., jr., M.D., Ph.D., "The Rogers Engineering Library," Univ. of Pa., Philadelphia, Pa. *Geol., Bot. C.?*
- 1910 Hawkes, Wm. H., B.A., M.D., 1830 N. Y. Ave., Washington, D. C. *Philology.**
- 1911 Hawkins, Hiram B., Box 383, Oneonta, Otsego Co., N. Y. *Min., Ent.: Lepid., Coleopt. C. Ex.*
- 1912 Hawkins, Thomas H., M.D., Denver, Colo. *Physiol.**
- 1913 Hawley, Geo. D., Augusta, Hancock Co., Ill. *Palæo., Geol., Min., Ent. C. Ex.**
- 1914 Hawley, Geo. P., Round Grove, Whiteside Co., Ill. *Ent. C.*
- 1915 Hawley, Mrs. Helen D., Round Grove, Whiteside Co., Ill. *Bot., Ferns, Mosses, Geol., Min., spec. Arch. C. Ex.*
- 1916 Hawley, Rev. R. E., M.A., Washington, Ind. *Indian Relics, Ctn. and Carb. Fossils and Goniatites. C.**
- 1917 Hawley, R. V., 117 Jefferson St., Cleveland, Ohio. *Ent.*
- 1918 Haworth, Alphonso, Mayport, Fla. *Marine Shells. C. Ex.*
- 1919 Haworth, Erasmus, Prof. Physical Sciences, Oskaloosa, Iowa.
- 1920 Hay, George U., St. John, N. B., Can. *Bot., Ferns, Fungi, Algæ.**
- 1921 Hay, O. P., Prof. Nat. Hist., Butler Univ., Indianapolis, Ind. *Comp. Anat., Fishes, Crustacea. C. Ex.**
- 1922 Hayden, F. V., M.D., LL.D., U. S. Geologist, 1805 Arch St., Philadelphia, Pa. *Geol.**
- 1923 Hayden, Rev. Horace E., Wilkes-Barre, Pa. *Bibliog., Arch., Numismatics. C. Ex.**
- 1924 Hayden, N. W., Windsor Locks, Hartford Co., Ct. *Bot. C.*
- 1925 Hayes, A. L., Cañon City, Colo. *Ool. C. Ex.**
- 1926 Hayes, Charles E., cor. Main and Dyre Sts., Frankford, Philadelphia, Pa. *Orn., Ool. C. Ex.?*
- 1927 Hayes, Prof. E. A., Randolph, N. Y. *Geol., Min., Phys., Ast. C. Ex.?*
- 1928 Haynes, Ernest E., Oberlin, O. *Orn., Ool. C. Ex.*
- 1929 Haynes, Prof. Henry W., 239 Beacon St., Boston, Mass. *Arch.?*

- 1930 Hayt, H. W., Med. Electrician, Lowville, N. Y. *Mam., Orn. C. Ex.?*
- 1931 Hayward, E. J., Santa Barbara, Calif. *Orn., Ent., Indian relics, Tarantulas and Tarantula nests.?*
- 1932 Hayward, Roland, 346 Marlboro St., Boston, Mass. *Ent: Coleopt. C. Ex.**
- 1933 Hazard, Fred'k R., Syracuse, N. Y. *Min., Inorg. Chem. C. Ex.**
- 1934 Hazard, John N., Peace Dale, R. I. *Analyt. Chem.**
- 1935 Hazard, R. G., 2d, Peace Dale, R. I. *Ool. C.**
- 1936 Hazard, Willis P., West Chester, Chester Co., Pa. *Agric., Mic., Bibliog., Zool., Gen. Biol., Mammals, Orn.**
- 1937 Hazen, Miss Frances M., Mt. Holyoke Female Seminary, South Hadley, Mass. *Bot.*
- 1938 Hazen, Henry Allen, A.M., Washington, D.C., *Meteorol. Elect., Ast.**
- 1939 Hazen, Levi, West Hartford, Vt. *Min. C.**
- 1940 Hazen, Gen. W. B., Chief Signal Officer U. S. A., Washington, D. C. *Meteorology.**
- 1941 Heading, Alice J., Peoria, Ill. *Bot. C. Ex.**
- 1942 Hecox, Laura J. F., Santa Cruz, Calif. *Con. C. Calif. shells in ex. for L. and F. W. shells and fossils.**
- 1943 Hedden, R. T., 33 Buttles Ave., Columbus, Ohio. *Orn., Ool., Arch. C. Ex.*
- 1944 Hedge, Frederick H., jr., Public Library, Lawrence, Mass. *Bot.**
- 1945 Hedges, Sidney M., 178 Devonshire St., Boston, Mass.*
- 1946 Hedley, George H., Medina, N. Y. *Orn., Ool., Ast., Photog., Tax., Bot. C. Pitcher plants and sundew for ex. Foreign correspondence solicited. Local mammals in ex. for bird skins.**
- 1947 Heighway, A. E., M.D., 86 W. 7th St., Cincinnati, Ohio. *Chem., Geol.**
- 1948 Heighway, A. E., jr., M.D., 88 W. 7th St., Cincinnati, Ohio. *Geol., Mic., Photog., Anat. C.*
- 1949 Heighway, S. C., 86 W. 7th St., Cincinnati, Ohio. *Coleopt., Fossils and Relics. C. Ex.?*
- 1950 Heiligbrodt, L., Bastrop, Texas. *Leptid., Hymenop., Coleopt., Reptiles. C.*
- 1951 Heilprin, Angelo, Prof. Invert. Palæo. and Curator-in-Charge Acad. Nat. Sci., Philadelphia, Pa. Prof. Zool., Wagner Free Inst. of Sci.*
- 1952 Heimstreet, Thomas B., M.D., 132 2d St., Troy, N. Y. *Orn., Gen. Zool. C. Ex.*
- 1953 Helstand, George W., Marysville, Union Co., Ohio. *Orn., Ent. C. Ex.**
- 1954 Heitzmann, Dr. Carl, 39 W. 45th St., New York City, N. Y. *Biol., Mic., Dermatol.**
- 1955 Helme, James W., jr., Adrian, Mich. *Orn., Tax. C.*
- 1956 Helmuth, Dr. Carl A., 206 Ohio St., Chicago, Ill. *Zool., Bot., Mic.*

- 1957 Hemlup, N. H., 604 S. E. Fifth St., Minneapolis, Minn. *Art.*,
Gen. Zool., *Mam.*
- 1958 Hemphill, Henry, San Diego, Calif. *Moll.* C.?
- 1959 Henderson, George A., Decatur, Ill. Manufacturer of Scientific instruments and novelties.*
- 1960 Henderson, J. L., M.D., Keewaydin, Clearfield Co., Pa. *Chem.*,
Mic., *Bibliog.*, *Orn.*, *Ent*: *Lepid.* C. Ex.*
- 1961 Henderson, Dr. J. P., Newville, Richland Co., Ohio. *Arch.*,
Eth. C.?
- 1962 Henderson, L. T., Marysville, Ohio. *Lepid.*, *Coleopt.* C. Ex.?
- 1963 Henderson, Louis F., 471 7th St., Portland, Ore. *Phæn. Bot.*,
Ferns, *Mosses* and *Lichens.* C. Ex.*
- 1964 Hennig, Miss L. Ida, Principal Mount Gardner Sem., Gardner,
Mass.
- 1965 Henry, Joseph, P. O. Box 785, Salina, Kan. *Bot.*, *Hort.*,
Grasses of the World, *Ferns* and *Mosses.* C. Ex.*
- 1966 Henry, W. A., Prof. Agric., Univ. Wisconsin, Madison
Wis.*
- 1967 Henry, William T., Mineral Point, Wis. *Min.*, *Palæo.* C.?
- 1968 Henshall, J. A., M.D., Cynthiana, Ky. *Ichth.**
- 1969 Henshall, Mrs. J. A., Cynthiana, Ky. *Palæo.*, *Con.*, *Ent.**
- 1970 Henshaw, H. W., Smithsonian Institution, Washington, D. C.
Orn., *Eth.* C. Ex.
- 1971 Henshaw, Samuel, 77 Newbury St., Boston, Mass. *Ent*:
*Myriopoda.**
- 1972 Herbert, W. S. B., Lynn, Mass. *Mic.*, *Ent*: *Coleopt.**
- 1973 Herberman, W. J., Ph.D., M.D., Ann Arbor, Mich. *Anat.*,
Ethnol., *Anth.*?
- 1974 Hermann, Richard, Dubuque, Ia. *Geol.*, *Palæo.* C. Ex.
Would like fossils from the Potsdam Period.*
- 1975 Heron, Gilbert C., C.E., Corsicana, Navarro Co., Texas.
Con.?
- 1976 Herpers, Henry, 18 Crawford St., Newark, N. J. *Ent*:
Lepid. C. Ex.*
- 1977 Herrick, C. L., M.S., Prof. Geol. and Nat. Hist. in Denison
Univ., Granville, O. Desires literature of Rotifera.*
- 1978 Herrick, Francis H., Tilton, N. H. *Orn.*, *Bot.* C. Ex.*
- 1979 Herrick, Harold, Lawrence, Queens Co., N. Y. *Orn.* C.
- 1980 Herron, R. B., Colton, San Bernardino Co., Calif. *Mam.*, *Orn.*,
Ool., *Taz.* C. Large collection of Calif. birds. Desires to
ex. for game birds of N. A.*
- 1981 Herron, W. M., M.D., 165 Robinson St., Allegheny City, Pa.
Phys., *Mic.*, *Spectroscopy*, *Art.*
- 1982 Hervey, Rev. A. B., Ph.D., Taunton, Mass. *Mic.*, *Crypt.*
Bot., *Marine Algæ* in particular. C. Ex.*
- 1983 Herzer, Rev. H., Berea, Ohio. *Crypt.* *Bot.*, *Mosses*, *Palæo.*,
Geol., *Mic.*, *Orn.* C. Ex.?
- 1984 Hess, F., Fort Dodge, Ia. *Art.*, *Surveyor and Civil Engineer.*?
- 1985 Hess, Frank W., 3d Artillery, U. S. A., address Allegheny
College, Meadville, Pa. *Orn.* C. Ex.*
- 1986 Hess, John, 15 Sayre St., Newark, N. J. *Lepid.* C.?

- 1987 Heuser, H. J., Wytheville, Wythe Co., Va. *Antiquities, Geol., Min.* C.
- 1988 Heustis, Mrs. Caroline E., Parrsboro', Nova Scotia, Can. *Ent: Lepid.* C.
- 1989 Hexamer, C. John, B.S., C.E., 2313 Green St., Philadelphia, Pa. *Anth., Arch., Eth., Ethnog.* C. Ex.
- 1990 Hexamer, F. M., M.D., New Rochelle, N. Y. *Bot.* C.*
- 1991 Heyer, W. D., 413 Jefferson Ave., Elizabeth, N. J. *Phys., Ast.**
- 1992 Heys, Thomas, Toronto, Canada. *Bot., Min., Chem.*
- 1993 Heyward, James S., A.M., Prof. Nat. Sci., State Agric. Coll., Orangeburg, S. C.
- 1994 Hibbard, William N., Hyde Park, Ill. *Coleopt.* C.*
- 1995 Hickman, John Bale, San Juan, San Benito Co., Calif. *Tax., Phæn. Bot., Ferns, Hort.* C. Ex.
- 1996 Hicks, John S., Roslyn, L. I., N. Y. *Hort., Photog., Meteo.**
- 1997 Hicks, Prof. L. E., Lincoln, Neb. *Strat. Geol., Palæo. C. Ex.**
- 1998 Hidden, Wm. Earl, 25 Orleans St., Newark, N. J., and Stony Point, Alexander Co., N. C. *Min., Cryst., Gen. Sci., Gems. C. Ex.* Will ex. N. C. mins. for perfect crystals from other regions. Gems in the rough, and meteorites espec. desired. Has magnificent rutile, quartz monazite for ex.*
- 1999 Higgins, F. W., Woodmere Cemetery, Detroit, Mich. *Bot., Met.?*
- 2000 Higgins, Saml., Susequehanna, Pa. *Metall., Elect., Phys., Geol.*
- 2001 Higginson, Charles M., care C. B. & Q. R. R., Chicago, Ill. *Min. C. Ex.*
- 2002 Higley, W. Kerr, Ph.D., Prof. Nat. Sci., Univ. of Chicago, Chicago, Ill. *Bot.* C.*
- 2003 Hildebrand, Charles, Yale Coll., 34 Chestnut St., New Haven, Ct. *Math.*
- 2004 Hilder, Frank F., 1415 Bremen Ave., St. Louis, Mo. *Palæo., Geol., Anth., Arch., Eth., Ethnog.* C.
- 2005 Hilgard, Eug. W., Prof. of Agric. Chem., Berkeley, Calif. *Agric. Chem., Geol.* Col. in Bot.*
- 2006 Hill, Alfred J., 406 Maria St., St. Paul, Minn. *Geog., Cartog., Anth.**
- 2007 Hill, Chas. S., Washington, D. C. *Political Economy, Geol., Min., Metall., Phys., Anth.* C. Ex.*
- 2008 Hill, Col. D. F., Pres. Acad. Nat. Sci., Ottawa, Ill. *Geol., Arch. C. Ex.?*
- 2009 Hill, Rev. E. J., Normal Park, Cook Co., Ill. *Bot., Geol. C.**
- 2010 Hill, Edwin A., New Haven, Ct. *Min., Mic. C. Ex.**
- 2011 Hill, F. A., Prin. High School, Chelsea, Mass. *Am. Arch.**
- 2012 Hill, Frank A., Ass't Geol., 2nd Geol. Surv. of Pa., 907 Walnut St., Philadelphia, Pa.*
- 2018 Hill, Frank C., M. D., Waupun, Wis. *Diatoms, Min., Chem., Phys., Ast.?*

- 2014 Hill, Franklin C., Box 338, Princeton, N. J. *Geol., Ent.**
- 2015 Hill, Frederic A., P. O. Box 155, Valley Falls, R. I. *Pharmacy, Chem., Bot., Mic., Metall., Phys., Meteo.**
- 2016 Hill, G. W., Nautical Almanac Office, Navy Dept., Washington, D. C. *Bot., Ast., Math.**
- 2017 Hill, Henry B., Prof. Chem., Harvard Coll., Cambridge, Mass.*
- 2018 Hill, Herbert M., A.M., 80 William St., Watertown, N. Y. *Chem., Min., Geol., Mic. C. Ex.**
- 2019 Hill, J. Stewart, M.D., 151 Lake St., Elmira, N. Y. *Orn. C.**
- 2020 Hill, Louis C., Box 2593, Ann Arbor, Mich. *Tax. C. Ex.**
- 2021 Hill, Lucy A., Belmont, Mass. C.
- 2022 Hill, Rev. W. K., A.M., Prof. Phys. and Nat. Sci., Carthage Coll., Carthage, Ill.
- 2023 Hill, W. W., Albany, N. Y. *Lepid. C. Ex.* Only perfect examples desired, and the same given in return.*
- 2024 Hiller, Chas. A., A.M., Salina, Kan. *Elect., Ast.**
- 2025 Hiller, P. C., Conestoga, Lancaster Co., Pa. *Arch. C. Ex.* Gardner's Mo., 1871-3, Hist. of Pa. Volunteers, 5 Vols. and Indian Relics for Ancient Indian Implements, etc. Modern relics wanted.*
- 2026 Hill, W. D., Odin, Marion Co., Ill. *Ool., Hort., Pomology. C. Ex.**
- 2027 Himes, Charles F., Ph. D., Prof. Phys., Dickinson Coll., Carlisle, Pa. *Phys., Chem., Photog.**
- 2028 Hinckley, Holmes, 1 Fairfield St., Boston, Mass. *Ent: Lepid.*
- 2029 Hines, Isaac N., M.D., Prof. Med. Coll. of West Reserve Univ., Cleveland, Ohio. *Pathol. and Morbid Anat.**
- 2030 Hinde, B. C., A.M., Prof. Phys. Sci., Howard Female Coll., Fayette, Mo. C.
- 2031 Hindman, Wm., P. O. Box 366, La Salle, Ill. *Palæo., Geol., Min., Anat., Moll., Radiates, Protozoa. C. Ex.**
- 2032 Hinds, J. I. D., A.M., C.E., Ph.D., Prof. Nat. Sci. and Chem., Cumberland Univ., Lebanon, Tenn. *Chem., Geol., Bot.**
- 2033 Hinds, Wm. A., Community, Madison Co., N. Y. *Bot. C.*
- 2034 Hinkley, A. A., Dubois, Washington Co., Ill. *L. and F. W. Shells. C. Ex.**
- 2035 Hinman, C. W., S.B., 32 Hawley St., Boston, Mass. *Chem.* Gas Inspector for Mass.
- 2036 Hinman, Chas. D., Columbus Savings Bank Co., Columbus, Ohio. *Anat., Zool., Orn., Ool. C. Ex.**
- 2037 Hinrichs, G., A.M., M.D., LL.D., Prof. Chem. Med. Dept., State Univ., Iowa City, Ia. *Meteo., Director Ia. weather service.**
- 2038 Hinsdale, Rev. Robert G., Biloxi, Miss. *Ent: Lepid. C. Ex.?*
- 2039 Hirschfelder, Chas. A., U. S. Vice Consul, Toronto, Can. *Min., Anth., Arch., Eth. C. Ex.*
- 2040 Hiscox, Gardner D., 435 Greene Ave., Brooklyn, N. Y. *C. and M. Eng., Ast., Geol., Physical Sciences, Micro-Min., Mic. C. Ex.**

- 2041 Hitchcock, C. H., Prof. Geol., Dartmouth Coll., Hanover, N. H. *Geol., Lithol., Ichnol.* C. Ex.*
- 2042 Hitchcock, Chas. A., Northeast, Erie Co., Pa. *Geol., Min.* C. Ex.*
- 2043 Hitchcock, Fanny R. M., 116 E. 37th St., New York City. *Invert. Palæo., Phys. Geol., Min., Lithol., Inorg. Chem.* C. Ex.*
- 2044 Hitchcock, Geo. N., San Diego, Calif. *Astronomy.**
- 2045 Hitchcock, H. S., Broad and Pine Sts., Philadelphia, Pa. *Mic., Anat., Phys.**
- 2046 Hitchcock, Merrill, B.A., Asst. Ast. and Phys., Wesleyan Univ., Middletown, Conn.?
- 2047 Hitchcock, Prof. R., F.R.M.S., National Museum, Washington, D. C. Ed. Am. Monthly Mic. Journal. *Mic., F. W. Algæ.* C.*
- 2048 Hoadley, A. E., M.D., Prof. Anat., Coll. Phys. and Surgeons of Chicago, 683 Washington Boulevard, Chicago, Ill. *Zool., Vert. Anat., Osteol.* Ex. in Osteol. and Anat.*
- 2049 Hoadley, John C., 28 State St., Boston, Mass. Engineer and Expert in patent cases. *Geol., Phys., Elect.* C.*
- 2050 Hobbs, Chas. E., Winter Hill, Somerville, Mass. *Mic., Bot., Diatoms.?*
- 2051 Hobbs, Orlando, Jeffersonville, Clarke Co., Ind. *Photography, Assay of Minerals and Ores, Geol., Palæo.* C. Lower Silurian to the Hamilton of the Devon. to ex. for Carb. and overlying formations.*
- 2052 Hobby, C. M., M.D., Iowa City, Ia. *F. W. Algæ, Mic.* C. Ex.*
- 2053 Hobson, A. E., 55 Crown St., Meriden, Ct. *Geol., Min.?*
- 2054 Hobson, J., Gibraltar, Mich. *Mam., Orn., Ichth., Reptiles.* C.?
- 2055 Hochstein, A., Botanical Artist, 58 Seventh St., Hoboken, N. J. *Bot.*
- 2056 Hodge, F., A.B., A.M., M.D., Hudson, Ohio. *Coleopt.* C. Ex.*
- 2057 Hodges, Edw. F., Prof. Pathol., Med. Coll. of Ind., Indianapolis, Ind. *Mic., Histol.* C. Ex.*
- 2058 Hodges, G. C., 129 John St., Utica, N. Y. *Chem., Mic.* C.?
- 2059 Hodges, N. D. C., Salem, Mass. *Phys.*
- 2060 Hodgkin, J. N., 1020 Main St., Richmond, Wayne Co., Ind. *Geol.* C. Ex.?
- 2061 Hoffman, Theo. C., Rockville, Ct. *Orn., Ool., Tax.* C. Ex.*
- 2062 Hoffman, D. A., M.D., Oskaloosa, Ia. *Geol., Palæo., Ool., Ent., Arch.* C.
- 2063 Hoffman, Walter J., M.D., Bureau of Ethnology, Washington, D. C. *Anth., Vert. Zool., Min.*
- 2064 Hoffmann, G. C., F. Inst. Chem., Chemist and Mineralogist and Asst. Dir. Geological Surv., Ottawa, Can.*
- 2065 Hogg, Alex., Supt. City Schools, Fort Worth, Tex.*
- 2066 Holbrook, Alfred, Pres. Nat. Normal Univ., Lebanon, Ohio. *Bot., Palæo., Geol., Min.* C. Ex.
- 2067 Holbrook, Francis N., C.E., School of Mines, Columbia Coll., New York, N. Y. *Metallurgy.*

- 2068 Holbrook, J. J., Keene, N. H. *Geol., Bot. C. Ex.?*
 2069 Holbrook, J., Post Office Box 536, New York, N. Y. *Geol.*
 2070 Holbrook, M. L., M.D., 13 Laight St., New York, N. Y., Editor Herald of Health, Prof. of Hygiene in New York Med. Coll., and Hospital for women, N. Y.*
 2071 Holcomb, Benton, West Granby, Hartford Co., Ct. *Con., Ool., Min. C. Ex.* Foreign Marine Shells wanted. Correspondence solicited.
 2072 Holcomb, Irving, West Granby, Ct. *Bot., Anth., Arch., Ool. C. Ex.*
 2073 Holden, E. G. D., Grand Rapids, Mich. *Arch.**
 2074 Holden, E. S., Pres. Univ. of Calif., and Dir. Lick Obs., Berkeley, Calif. *Ast.**
 2075 Holden, Isaac, A.M., Bridgeport, Ct. *Bot.* Making col. for B. Scientific Society.*
 2076 Holden, W., 179 Vine St., Cincinnati, Ohio. *Arch., Araneæ. C.?*
 2077 Holder, J. B., M.D., Cur. Marine and Invert. Zool., Am. Museum, Central Park, New York, N. Y.*
 2078 Holder, Mary H., Berlin, Mass. *Bot. C.**
 2079 Holland, Rev. F. R., Hope, Ind. *Bot., Con. C.**
 2080 Holland, Frank, Manchester, N. H. *Mic. C.**
 2081 Holland, Rev. W. J., Pittsburg, Pa. *Bot., Ent: Lepid., Coleopt.* Large collection. Desire to ex. or buy insects from all parts of the world, esp. N. A. Also rare books on Lepid.*
 2082 Hollick, Arthur, Ph.B., Box 105, New Brighton, Staten Island, N. Y. *Phæn. and Crypt. Bot. C. Ex.**
 2083 Holman, David S., Lock Box 519, 15 S. 7th St., Philadelphia, Pa. *Mic.**
 2084 Holman, Silas W., S.B., Assoc. Prof. of Physics, Mass. Inst. Tech., Boston, Mass. *Phys., Elect., Thermometry.**
 2085 Holmes, E. S., D.D.S., Grand Rapids, Mich. *Zool.**
 2086 Holmes, J. C., 55 Moffat Block, Detroit, Mich. *Ent. C.**
 2087 Holmes, Prof. Jos. A., Chapel Hill, N. C. *Geol., Bot. C. Ex.*
 2088 Holmes, Miss Mary E., 201 S. 1st St., Rockford, Winnebago Co., Ill. *Bot., Orn., Geol., Mic. C. Ex.**
 2089 Holmes, W. H., U. S. Geol. Survey, Washington, D. C. *Geol., Arch.*
 2090 Holstein, Geo. Wolf, Belvidere, N. J. *Invert. Palæo., Bot., Anth., Arch. C. Ex.*
 2091 Holt, Alfred F., M.D., 5 Pleasant St., Cambridgeport, Mass. *Pathol. and Histol., Mic. slides of same in ex. for any Mic. objects.**
 2092 Holterhoff, G., jr., San Diego, Calif. and Avondale, Cincinnati, Ohio. *Orn., Ool. C. Ex. in Ool.*
 2093 Holway, E. W., Decorah, Ia. *Fungi, Phæn. Bot., Mic. C. Ex. fungi.*
 2094 Holzinger, John M., Prof. Nat. Hist., Winona, Minn. *Phæn. Bot., Ent. Ex. Phæn. plants, mic. corals, shells and vasc. crypt. Desires to ex. corals, mins., plants and fossils, etc.*

- 2095 Homes, Henry A., LL.D., State Library, Albany, N. Y.*
 2096 Homsher, Geo. W., M.D., Cur. Arch., Dublin Nat. Hist. Soc., Dublin, Wayne Co., Ind. *Arch.* C.
 2097 Honeyman, Rev. David, D.C.L., F.R.S.C., Provincial Geologist and Cur. Prov. Mus., Halifax, N. S., Can. *Geol.*
 2098 Hood, Edwin, Old South Church, Boston, Mass. *Dipt.* C.
 2099 Hood, E. Lyman, Minneapolis, Minn. *Orn.*, *Ool.*, *Ent.*, *Mic.* C. Ex. for European species.
 2100 Hood, Harvey P., Derry, Rockingham Co., N. H.
 2101 Hooker, Miss Henrietta E., Mt. Holyoke Female Sem., South Hadley, Mass. *Math.*, *Bot.*?
 2102 Hooper, Franklin W., Prof. Nat. Sci., Adelphi Acad., 71 St. James Pl., Brooklyn, N. Y.*
 2103 Hooper, Wm. L., Asst. Prof. Phys., Tufts College, College Hill, Mass. *Phys.*, *Elect.**
 2104 Hooper, Josiah, West Chester, Pa. *Bot.*, *Coniferæ.* C.
 2105 Hope, Henry W., Paint P. O., Highland Co., Ohio. *Geol.*, *Arch.* C. Ex.*
 2106 Hopkins, Florence M., Leavenworth, Kan. *Ferns*, *Algæ*, *Palæo.*, *Geol.* C. Ex.?
 2107 Horn, George H., M.D., 874 North 4th St., Philadelphia, Pa. *Coleoptera of U. S.* C.*
 2108 Horn, H. B., M.D., Atchison, Kan.*
 2109 Hornaday, William T., Chief Taxidermist U. S. Nat. Mus., Pres. Soc. Am. Taxidermists, Washington, D. C. *Mam.* Coll. and Tax. in all branches.*
 2110 Horne, A. R., D.D., Ed. "Nat. Educator," Allentown, Pa. *Bot.*, *Geol.*, *Min.*, *Chem.*, *Phys.*, *Meteo.* C. Ex.*
 2111 Horne, Edwin W., 12 E. Main St., Rochester, N. Y. *Mic.* *Photog.*
 2112 Horne, Henry E., McGregor, Ia. *Min.* C. Ex. Also offers curiosities from the Miss. River.*
 2113 Horr, Asa, M.D., Dubuque, Ia. *Bot.* C.*
 2114 Horsford, F. H., Charlotte, Vt. *Bot.**
 2115 Hoskins, William, 81 South Clark St., Room 51, Chicago, Ill. *Min.*, *Analyt. Chem.*, *Legal Mic.* C. Ex.*
 2116 Hotchkiss, Jed., Ed. of "The Virginians," the mining and industrial journal of Va. and W. Va.; consulting Mining Engineer, 346 East Main St., Staunton, Augusta Co., Va. *Geol.*, *Meteo.*, *Physics*, *Arch.*, *Bibliog.*, *Eth.*, *Ethnog.* C.*
 2117 Hotchkiss, M. T., 37 Montgomery St., Syracuse, N. Y. *Phæn.* *Bot.*, *Filices.* C. Ex.
 2118 Hoter, Andrew, Dayton, Ohio. *Mic.*?
 2119 Hough, G. W., Dir. Dearborn Observatory, Chicago, Ill. *Physics*, *Elect.*, *Meteorol.*, *Ast.*
 2120 Hough, Prof. Jacob Brenneman, M.D., Waynesville, Warren Co., Ohio. *Bot.*, *Aquatic plants*, *Chem.*, *Phys.*, *Mic.*, *Photog.*, *Zool.*, *Radiates*, *Sponges*, *Protozoa*, *Infusoria.* C. Ex. living aquatic plants. Lists furnished.
 2121 Hough, Joseph P., Midland City, De Witt Co., Ill. *Bot.*, *Chem.* C. Ex.?

- 2122 Hough, Romeyn B., Lowville, N. Y. *Orn., Bot., Dendrology*. C.
 2123 Hough, Sam'l J., 29 St. Paul St., Baltimore, Md. *Ent: Coleopt.* C.
 2124 Houghton, Charles A., West Medway, Mass. *Orn., Tax.* C. Ex.*
 2125 Houghton, E. N., East Providence, R. I. *Ool.* C. Ex.?
 2126 Houghton, John N., Grinnell, Iowa. *Orn., Ool.* C. Ex.*
 2127 House, R. A., Coll. of Phys. and Surgeons, Chicago, Ill. *Osteol.**
 2128 Houston, George M., Harrisonville, Mo. *Min., Mic.* C. Ex.*
 2129 Hovey, C. H., 69 Tremont St., Boston, Mass. *Floriculture, Pomology, Horticulture.* C. Ex.
 2130 Hovey, C. M., Boston, Mass. *Ferns, Mosses, Horticulture.*
 2131 Hovey, Rev. Horace C., D.D., 1519 Park Ave., Minneapolis, Minn. *Geol., Anth.* C. Ex. crinoids, corals and cave specimens.*
 2132 Howard, Cary, 618 8th St., Oakland, Calif. *Coleopt.* C.?
 2133 Howard, Curtis C., Prof. Chem., Starling Med. Coll., Columbus, Ohio. *Chem., Phys., Mic.* C. Ex.*
 2134 Howard, E. M., M.D., B.S., 401 Linden St., Camden, N. J. *Bot., Min., Mic., Myology of Vert.* C. Ex.
 2135 Howard, L. A., Petersburg, Monroe Co., Mich. *Bot., Min., Zool., Geol., Orn., Ool.* Ex. in *Ool.* Eggs in sets only.*
 2136 Howard, L. O., M.S., Ass't Entomologist, Dept. Agric., Washington, D. C. *Econ. Ent., esp. parasitic Hymenoptera.*
 2137 Howard, Prof. Orson, B.S., Desert Univ., Salt Lake City, Utah. *Moll.* C. Ex.*
 2138 Howard, Sophie E., M.D., Fairport, N. Y. *Gen. Biol., Mic.* Ex.
 2139 Howard, W. H., B.S., B.Ph., Prof. Adrian Coll., Adrian, Mich. *Chem., Phys.**
 2140 Howe, Allen B., Ph.D., Yale Coll., 138 College St., New Haven, Ct. *Analyt. Chem.*
 2141 Howe, Elliot C., M.D., Yonkers, N. Y. *Bot: Cyperaceæ, Ferns, Ent., Biol.* C. Ex. in Bot.
 2142 Howe, Prof. H. A., Denver, Colo. *Math., Ast.*
 2143 Howe, Jas. Lewis, Ph.D., F.C.S., Richmond, Ky. *Chem.**
 2144 Howe, Lucien, M.D., 64 W. Huron St., Buffalo, N. Y. *Mic., Anat.* C. Ex. desired in slides illustrating anatomy and pathology of the eye and ear.*
 2145 Howe, Oliver H., Dedham, Mass. *Bot.*
 2146 Howell, Edwin E., A.M., Rochester, N. Y. *Min., Geol., Invert. Palæo.*
 2147 Howell, Edwin E., A.M., Ward's Nat. Sci. Estab., 18 College Ave., Rochester, N. Y. *Geol., Min.**
 2148 Howell, Joseph, Arthur, Multnomah Co., Ore. *Bot.* C.*
 2149 Howell, Robert, Nichols, Tioga Co., N. Y. *Geol., Palæo., Zool., Arch.* C. Ex.*
 2150 Howell, Samuel B., M.D., 1513 Green St., Philadelphia, Pa. Prof. Min. and Geol., Univ. of Pa. *Palæo., Geol., Chem., Min., Lithol., Mic., Photog., Invert.* C. Ex. Particularly desires to obtain Polyzoa, recent and fossil.*

- 2151 Howell, Thomas, Arthur, Multnomah Co., Ore. *Bot.* Collects native seeds, bulbs, ferns, etc.*
- 2152 Howes, Geo. H., Box 99, South Braintree, Mass. *Min., Orn., Ool., Tax.* C. Ex.
- 2153 Howey, J. M., Box 317, Canandaigua, N. Y. *Orn., Ool.* C.?
- 2154 Howland, E. P., M.D., 211 4½ St., N. W., Washington, D. C. *Phys., Elect., Mic., Photog.*
- 2155 Howland, Snowden, 32 High St., Newport, R. I. *Ool.* C. Ex. for sets only.
- 2156 Hoxie, Walter, Frogmore, S.C. *Tax., Ool., Orn.* (*Crustacea, Moll., Batrachians and Snakes in spirit*). Collections made to order.*
- 2157 Hoy, Philo R., M.D., Racine, Wis. *Ent., Herpetol. and Orn. of Wisconsin.* C.
- 2158 Hoystradt, Lyman H., Pine Plains, Dutchess Co., N. Y. *Phæn. Bot., Filices, Potamogetons.* C.?
- 2159 Hoyt, Chas. N., So. 11th, near 3d St., Brooklyn, E. D., N. Y. *Coleopt.?*
- 2160 Hoyt, D. B., Rockport, Mass. *Bot., Orn., Ool., Ent.?*
- 2161 Hoyt, E. C., Seneca Falls, N. Y. *Diatoms, Min., Org. Chem., Metall., Mic.* C. Ex.*
- 2162 Huart, Rev. Victor A., A.M., Prof. Zool., Sem., Chicoutimi, P. Q., Can. *Ent., Gen. Nat. Hist.* C. Ex.*
- 2163 Huckins, D. T., M.D., Watertown, Mass. *Marine, L. and F. W. Moll.* C. Ex.
- 2164 Hubbard, G. W., M.D., Prof. of Nat. Sci., Central Tennessee Coll., Nashville, Tenn. *Bot., Geol., Min.* C. Tenn. plants for ex.*
- 2165 Hubbard, H. G., 114 Griswold St., Detroit, Mich. Winter address Crescent City, Fla. *Coleopt.* C. Ex.
- 2166 Hubbard, Lucius, South Bend, Ind. *Ent., L. and F. W. Shells.* C. Ex.
- 2167 Hubbard, Oliver Payson, M.D., LL.D., Emer. Prof. Chem. and Pharm., Dartmouth Coll., Hanover, N. H., 65 W. 19th St., New York City.*
- 2168 Hubbard, W. C., 27 West Ninth St., New York, N. Y. *Phys., Chem., Mic.**
- 2169 Huber, Rev. Ed., 63 N. Broadway, Baltimore, Md. *Mic.* Ex.?
- 2170 Hubregtse, Adrian, 34 Cypress St., Rochester, N. Y. *Bot.* C.?
- 2171 Huckel, Rev. William, 161 Maiden Lane, New York, N. Y. *Bot., Mic.**
- 2172 Hudson, B., Peterboro', Can. *Mam., Orn., Tax.**
- 2173 Hudson, Geo. H., Plattsburg, Clinton Co., N. Y. *Coleopt., Papilionidæ, Con., L. and F. W. Shells.* C. Ex.*
- 2174 Huett, John W., Ottawa, La Salle Co., Ill. *Bot., Geol., Con., Ent.* C. Ex.*
- 2175 Hughes, W. H., 47 Jefferson Ave., Grand Rapids, Mich. *Geol.* C.*
- 2176 Hulbert, E. M., New Britain, Ct. *Ent.: Lepid., Coleopt.* C. Ex.*

- 2177 Huling, R. G., A.M., Fitchburg, Mass. *Anth.*, *Arch.*, *Eth.*, *Philol.*, *Ethnog.**
- 2178 Hull, Chas. G., Wallingford, Ct. *Geol.*, *Min.*, *Crystall.*, *Chem.*, *Photog.* C. Ex.*
- 2179 Hull, G. Fred., Wallingford, Ct. *Mic.**
- 2180 Hull, H. V., M.D., P. O. Box 1199, Schenectady, N. Y. *Mic.**
- 2181 Hulst, Geo. D., D.D., 15 Himrod St., Brooklyn, E. D., N. Y. *North Am. Lepid.*, esp. *Geometridæ* and *Micro-lepid.* C. Ex.
- 2182 Hume, John, Eglinton Place, Davenport, Ia. *Geol.*, *Palæo.*, *Arch.*, *Eth.* C. Ex.*
- 2183 Humphrey, D., M.D., Lawrence, Mass. *Gen. Biol.*, *Mic.**
- 2184 Humphrey, Fred., 75 Waltham St., Boston, Mass. *Orn.*, *Arch.* C.*
- 2185 Humphrey, George W., Dedham, Mass. *Bot.*, *Zool.* C.*
- 2186 Humphrey, James E., No. Weymouth, Mass. *Bot.*, esp. *Crypt.*, *Biology.* C. Ex.*
- 2187 Humphrey, Wm., Adrian, Mich. *Mic.*, *Micro-Photog.* C. Ex.*
- 2188 Humphreys, A. W., 71 Columbia Heights, Brooklyn, N. Y. *Geol.*, *Min.*, *Bibliog.* C.*
- 2189 Humphreys, Fred. H., 109 Fulton St., New York, N. Y. *Gen. Biol.*, *Morphol.*, *Vert. and Invert. Emb.*?
- 2190 Hunt, Andrew M., C.E., care Navy Dept., Washington, D.C. *Petrology.* C.?
- 2191 Hunt, David, jr., A.M., M.D., 149 Boylston St., Boston, Mass. *Vert. Emb.*
- 2192 Hunt, George, Box 722, Providence, R. I. *Ent.*, *Bot.* C.?
- 2193 Hunt, George M., C.E., No. Argyle, Washington Co., N. Y. *Geol.*, *Min.*, *Bot.* C.*
- 2194 Hunt, Dr. J. G., Philadelphia, Pa. *Bot.*, *Mic.*?
- 2195 Hunt, J. H., M.D., cor. Bedford Ave. and Quincy Sts., Brooklyn, N. Y. *Diatoms*, *Min.*, *Mic.*, *Arch.*, *Histol.* C.*
- 2196 Hunt, James G., Frankfort, Herkimer Co., N. Y. *Geol.*, *Min.*?
- 2197 Hunt, T. Sterry, LL.D., F.R.S., Montreal, Can. *Geol.*, *Min.*, *Chem.**
- 2198 Hunter, D. E., A.M., Terrell, Kaufman Co., Tex. *Ast.**
- 2199 Hunter, John L., 35 Grover St., Auburn, N. Y. *Orn.*, *Ool.* C. Ex.*
- 2200 Hunting, A. J., Natick, Mass. *Orn.*, *Ool.*, *Ent.* C. Ex.
- 2201 Huntington, Alfred T., 101 Decatur St., Charlestown Dist., Boston, Mass. *Bot.*, *Geol.*, *Orn.*, *Ichth.*, *Ent.* C.*
- 2202 Huntington, C. M., Clinton, Oneida Co., N. Y. *Geol.*?
- 2203 Huntington, George S., C.E., 245 Browne St., Cincinnati, O. *Native and foreign land shells.* *Coleopt.* C. Ex.
- 2204 Huntington, Oliver W., Inst. in Min., Harvard Coll., Cambridge, Mass. *Min.*, *Crystall.*, *Lithol.* C. Ex.*
- 2205 Huntley, Dwight B., Tombstone, Ariz. *Met.*, *Chem.*, *Geol.*, *Min.*, *Lithol.* C.?
- 2206 Hurlburt, Edward, Utica, N. Y. *Geol.*, *Palæo.* C. Ex.
- 2207 Hurlbut, John E., A.M., M.D., Aurora, Ill. *Mic.* C. Ex.*
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- 2661 Luetgens, Augustus (Box 328), 207 E. 15th St., New York City. *Ent: Am. and European Coleopt.* C. Ex.
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- 2675 Lykins, Wm. H. R., Kansas City, Mo. *Geol., Palæo., Mic.* C.
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- 2677 Lyle, David A., Capt. of Ordnance, U. S. A., Box 2253, Boston, Mass. *Orn., Eth., Ast., Phys., Metal. and Mining?*
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- 2682 Lyman, Theodore, Brookline, Mass. *Radiata, Pisciculture.*
- 2683 Lynch, Wm. H., Ed. Alpha, Danville, P. Q., Can. *Agric., Geol., Elect., Meteo., Science of Life.**
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- 2692 McAlvin, J. H., C.E., Cur. Min. and Geol. spec., Land Dept., U. P. Ry., Omaha, Nebraska. C. Ex.*
- 2693 McAndrew, W. A., Ypsilanti, Mich. *Chem., Nat. Sci.?*
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- 2797 Marcou, Jules, 42 Garden St., Cambridge, Mass. (and at Saline, Jura, France).
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PART II.

ARRANGEMENT BY STATES.

The following abbreviations have been used in Part II:—Astronomy, A.; Archæology, Ar.; all Botanical subjects, B.; Bibliography, Bi.; Chemistry, C.; Diatoms, Diat.; Entomology, E.; Ethnology, Ethnography and Philology, Et.; Geographical Distribution, G. D.; Geology, G.; Herpetology, H.; Ichthyology, I.; Invertebrates, Inv.; Mineralogy, M.; Microscopy, Mc.; Molluscs, Mo.; Mammalogy, Ma.; Metallurgy, Met.; Ornithology and Oölogy, O.; Palæontology, P.; Physics, Ph.; Toxicology, T.; Vertebrates, V.; Zoology, Z.

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Z., *V.*

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Z.
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